

# EUROPEAN PATENT OFFICE

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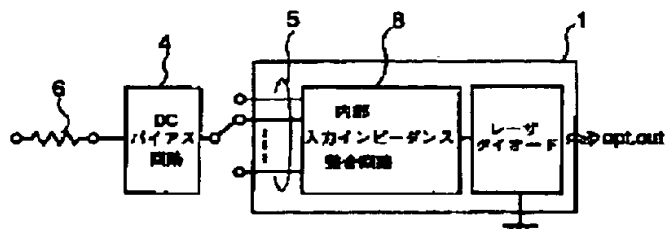
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H04B 10/152 H04B 10/142 H04B 10/04  
H04B 10/06 H04B 10/28 H04B 10/26  
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TITLE : SEMICONDUCTOR LASER MODULE  
WITH MULTI INPUT TERMINAL



ABSTRACT : PROBLEM TO BE SOLVED: To provide the semiconductor laser module with multi input terminal in which high modulation is obtained with small modulation signal power for a desired frequency band and no adjustment process is required.

SOLUTION: A module package 1 is provided with a plurality of modulation signal input terminals 5 to receive modulation signals and a laser diode to convert an output signal of an internal input impedance matching circuit 8 connecting to the modulation signal input terminals 5 into an optical signal, and the internal input impedance matching circuit 8 realizes the impedance matching between a signal transmission line 6 and the laser diode for different frequency bands corresponding to a plurality of the modulation signal input terminals 5.

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